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□ Tentative Specification
□ Preliminary Specification
■ Approval Specification

MODEL NO.: V400H1
SUFFIX: LHA

Customer:

APPROVED BY **SIGNATURE**

Name / Title _____ _____

Note

Please return 1 copy for your confirmation with your signature and comments.

Approved By	Checked By	Prepared By
Chao-Chun Chung	Josh Chi	Joanne Chung

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REVISION HISTORY

Version	Date	Page(New)	Section	Description
Ver. 2.0	Mar. 03, 2011	All	All	The approval specification was first issued.

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1. GENERAL DESCRIPTION

1.1 OVERVIEW

V400H1-LHA is a 40” TFT Liquid Crystal Display module with 12-CCFL Backlight unit and 4ch-LVDS interface. This module supports 1920 x 1080 Full HDTV format and can display true 1.07G (8-bit+Hi-FRC) colors. The balance board module for backlight is built-in.

1.2 FEATURES

- High brightness (500 nits)
- High contrast ratio (6000:1)
- Fast response time (Gray to gray average 5.5 ms)
- High color saturation (NTSC 72%)
- Full HDTV (1920 x 1080 pixels) resolution, true HDTV format
- DE (Data Enable) only mode
- LVDS (Low Voltage Differential Signaling) interface
- Optimized response time for 120 Hz frame rate
- Ultra wide viewing angle : Super MVA technology
- Viewing Angle : 160(H)/150(V) (CR>10) TN Technology
- RoHs compliance

1.3 APPLICATION

- Standard Living Room TVs
- Public Display Application
- Home Theater Application
- MFM Application

1.4 GENERAL SPECIFICATIONS

Item	Specification	Unit	Note
Active Area	885.6(H) x 498.15 (V) (40” diagonal)	mm	(1)
Bezel Opening Area	891.7 (H) x 504.8 (V)	mm	
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1920 x R.G.B. x 1080	pixel	-
Pixel Pitch(Sub Pixel)	0.15375 (H) x 0.46125 (V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	1.07G	color	-
Display Operation Mode	Transmissive mode / Normally Black	-	-
Surface Treatment	Anti-Glare coating (Haze 11%)	-	(2)

Note (1) Please refer to the attached drawings in chapter 9 for more information about the front and back outlines.

Note (2) The spec. of the surface treatment is temporarily for this phase. CMI reserves the rights to change this feature.

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1.5 MECHANICAL SPECIFICATIONS

Item		Min.	Typ.	Max.	Unit	Note
Module Size	Horizontal (H)	951	952	953	mm	(1)
	Vertical (V)	550	551	552	mm	(1)
	Depth (D)	49	50	51	mm	(2)
	Depth (D)	56.3	57.3	58.3	mm	(3)
Weight		-	9439.5	-	g	-

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

Note (2) Module Depth is between bezel to T-CON cover.

Note (3) Module Depth is between bezel to Balance board cover.

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2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	TST	-20	+60	ºC	(1)
Operating Ambient Temperature	TOP	0	50	ºC	(1), (2)
Shock (Non-Operating)	SNOP	-	50	G	(3), (5)
Vibration (Non-Operating)	VNOP	-	1.0	G	(4), (5)

Note (1) Temperature and relative humidity range is shown in the figure below.

(a) 90 %RH Max. (Ta ≦ 40 ºC).

(b) Wet-bulb temperature should be 39 ºC Max. (Ta > 40 ºC).

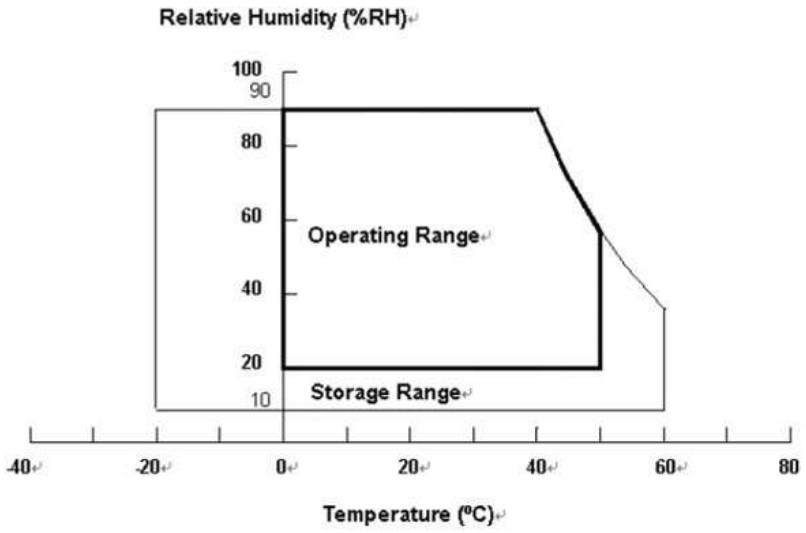
(c) No condensation.

Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 ºC with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 65 ºC. The range of operating temperature may degrade in case of improper thermal management in final product design.

Note (3) 11 ms, half sine wave, 1 time for ± X, ± Y, ± Z.

Note (4) 10 ~ 200 Hz, 10 min, 1 time each X, Y, Z.

Note (5) At testing Vibration and Shock, the fixture in holding the module has to be hard and rigid enough so that the module would not be twisted or bent by the fixture.



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2.2 PACKAGE STORAGE

When storing modules as spares for a long time, the following precaution is necessary.

(a) Do not leave the module in high temperature, and high humidity for a long time, It is highly recommended to store the module with temperature from 0 to 35 ℃ at normal humidity without condensation.

(b) The module shall be stored in dark place. Do not store the TFT-LCD module in direct sunlight or fluorescent light.

2.3 ELECTRICAL ABSOLUTE RATINGS

2.3.1 TFT LCD MODULE

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Power Supply Voltage	VCC	-0.3	13.5	V	(1)
Logic Input Voltage	VIN	-0.3	3.6	V	

2.3.2 BACKLIGHT BALANCE BOARD UNIT

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Lamp Voltage	V	—	3000	VRMS	Lamp Voltage
IP Board Supply Voltage	High / Low	195 (Low)	390 (High)	Vrms	IP Board Supply Voltage
Control Signal Level	—	-0.3	15	V	Control Signal Level

Note (1) Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions.

Note (2) No moisture condensation or freezing.

Note (3) The control signals include On/Off Control and Internal PWM Control.

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3. ELECTRICAL CHARACTERISTICS

3.1 TFT LCD MODULE

(Ta = 25 ± 2 ºC)

Parameter		Symbol	Value			Unit	Note
			Min.	Typ.	Max.		
Power Supply Voltage		V_{CC}	10.8	12	13.2	V	(1)
Rush Current		I_{RUSH}	–	–	4.25	A	(2)
Power consumption	White Pattern	P_T	–	15.12	18.24	W	(3)
	Black Pattern		–	7.08	8.4		
	Horizontal Stripe		–	15.12	18.24		
Power Supply Current	White Pattern	–	–	1.26	1.52	A	(3)
	Black Pattern	–	–	0.59	0.70	A	
	Horizontal Stripe	–	–	1.26	1.52	A	
LVDS interface	Differential Input High Threshold Voltage	V_{LVTH}	+100	–	–	mV	(4)
	Differential Input Low Threshold Voltage	V_{LVTL}	–	–	-100	mV	
	Common Input Voltage	V_{CM}	1.0	1.2	1.4	V	
	Differential input voltage (single-end)	$\|V_{ID}\|$	200	–	600	mV	
	Terminating Resistor	R_T	–	100	–	ohm	
CMIS interface	Input High Threshold Voltage	V_{IH}	2.7	–	3.3	V	
	Input Low Threshold Voltage	V_{IL}	0	–	0.7	V	

Note (1) The module should be always operated within the above ranges.

Note (2) Measurement condition:

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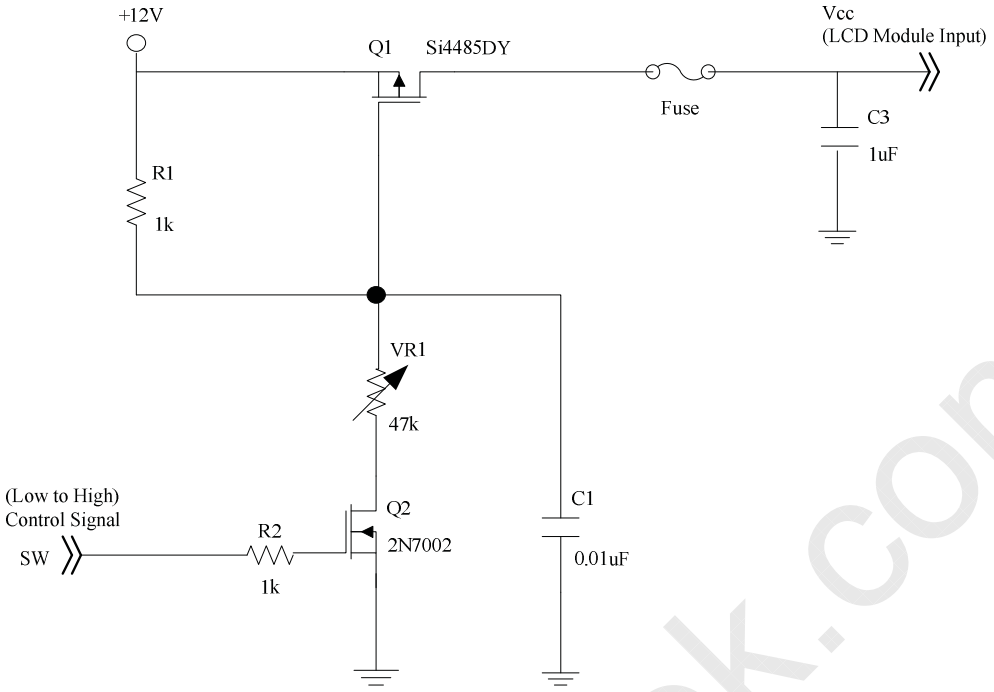
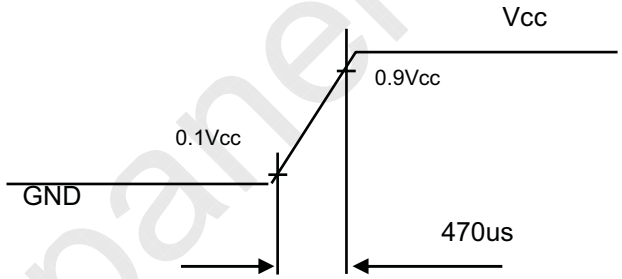


Vcc rising time is 470us



Note (3) The specified power supply current and power consumption are under the conditions at Vcc = 12 V, Ta = 25 ± 2 ºC, f_v = 120 Hz, whereas a power dissipation check pattern below is displayed.

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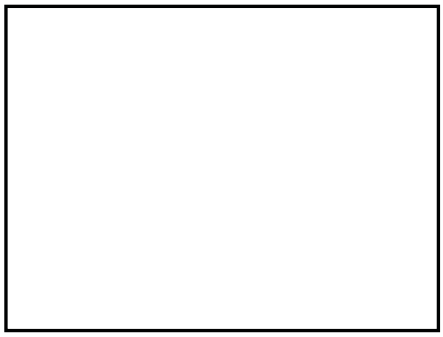
a. White Pattern

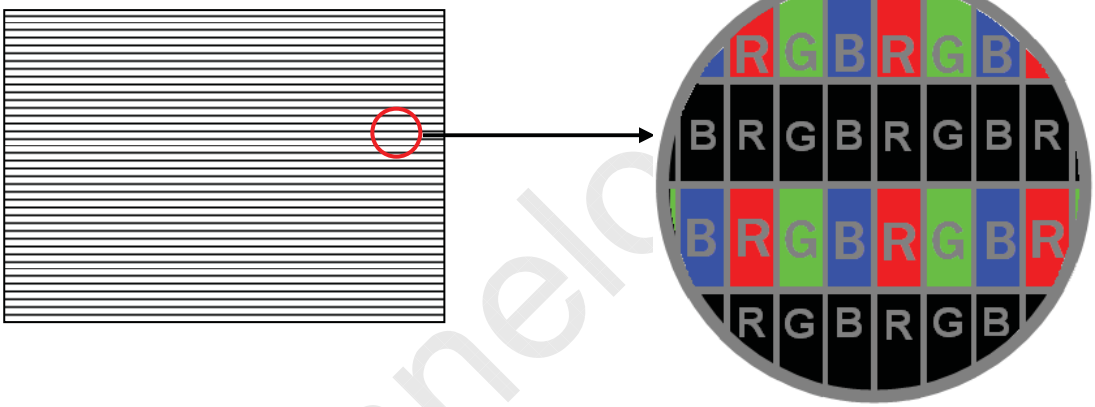


Active Area

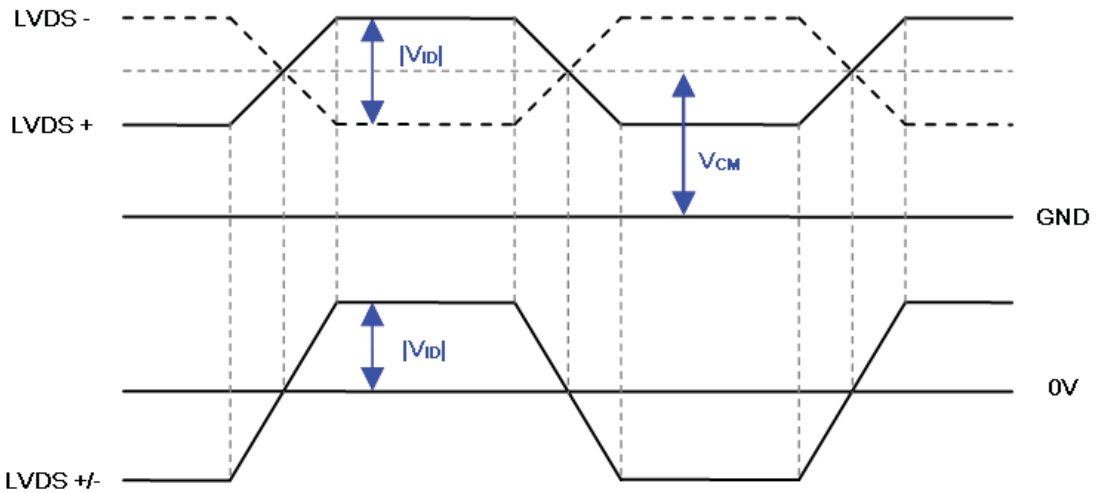
b. Black Pattern

Active Area

c. Horizontal Pattern



Note (4) The LVDS input characteristics are as follows :



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3.2 BACKLIGHT CONNECTOR PIN CONFIGURATION

3.2.1 LAMP SPECIFICATION (Ta = 25 ± 2 ºC)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Lamp Input Voltage	V_W	-	840	-	V_{RMS}	I_L=14.5mA
Lamp Current	I_L	3	14.5	15	mA_{RMS}	
Lamp Turn On Voltage	V_S	-	-	1320	V_{RMS}	(1) , Ta = 0 ºC
		-	-	1190	V_{RMS}	(1) , Ta = 25 ºC
Operating Frequency	F_O	30	-	80	KHz	(2)
Lamp Life Time	L_{BL}	50,000	-	-	Hrs	(3)

3.2.2 ELECTRICAL SPECIFICATION

(Ta = 25 ± 2 ºC)

Parameter		Symbol	Value			Unit	Note
			Min.	Typ.	Max.		
Input High Voltage		High	380	390	400	Vrms	(6)
Input Low Voltage		Low	190	195	200	V	
Protection Circuit Supply Voltage		Vcc	11	13	15	V	
Power Consumption		P_{IP}	-	145	150	W	No Dimming (IPB input)
Input Current		I_{TB}		0.372	0.385	Arms	Measure TBB HIGH(390V)
Oscillating Frequency		F_W	43	45	47	kHz	
Individual Lamp Current		I_L	13.5	14.5	15.5	mA	**(5)**
Connector Detection	High	CNTPRT	Vcc-0.5	-	Vcc	V	Normal Operation
	Low	CNTPRT	-	-	1	V	Input Connector Open
All Lamp Open Detection	High	LD	Vcc-0.5	-	Vcc	V	Normal Operation
	Low	LD	-	-	1	V	All Lamp Open
One Lamp Open Detection	High	OVP	1.25	-	-	V	Normal Operation
	Low	OVP	0	-	0.8	V	One Lamp Open
Dimming frequency		F_B	140	150	160	Hz	
Minimum Duty Ratio		D_{MIN}	12	15	18	%	Note.8
Striking time		tsriking	1	-	2	sec	
Shutdown time		Tsd	1	1.5	2	sec	

Note (1) Lamp current is measured by utilizing AC current probe and its value is average by measuring master and slave board.:

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Note (2) The lamp starting voltage V_S should be applied to the lamp for more than 1 second after startup. Otherwise the lamp may not be turned on.

Note (3) The lamp frequency may produce interference with horizontal synchronous frequency of the display input signals, and it may result in line flow on the display. In order to avoid interference, the lamp frequency should be detached from the horizontal synchronous frequency and its harmonics as far as possible.

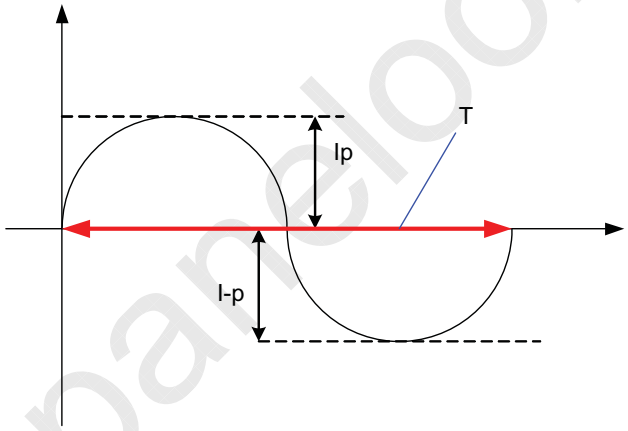
Note (4) The life time of a lamp is defined as when the brightness is larger than 50% of its original value and the effective discharge length is longer than 80% of its original length (Effective discharge length is defined as an area that has equal to or more than 70% brightness compared to the brightness at the center point of lamp.) as the time in which it continues to operate under the condition at Ta = 25 ±2℃ and I_L = 13.5~15.5 mArms.

Note (5) Lamp current is measured master board by utilizing high frequency current meters as shown below:

Note (6) Input voltage Hv based on spec. +-7% tolerance.

Note (7) Asymmetric ratio must be from 90% to 110% ($0.9<Ip/ I_{rms@T/2X\sqrt{2}}<1.1$)

Note (8) The minimum dimming under 3% operation should cause shutdown by protection circuit.



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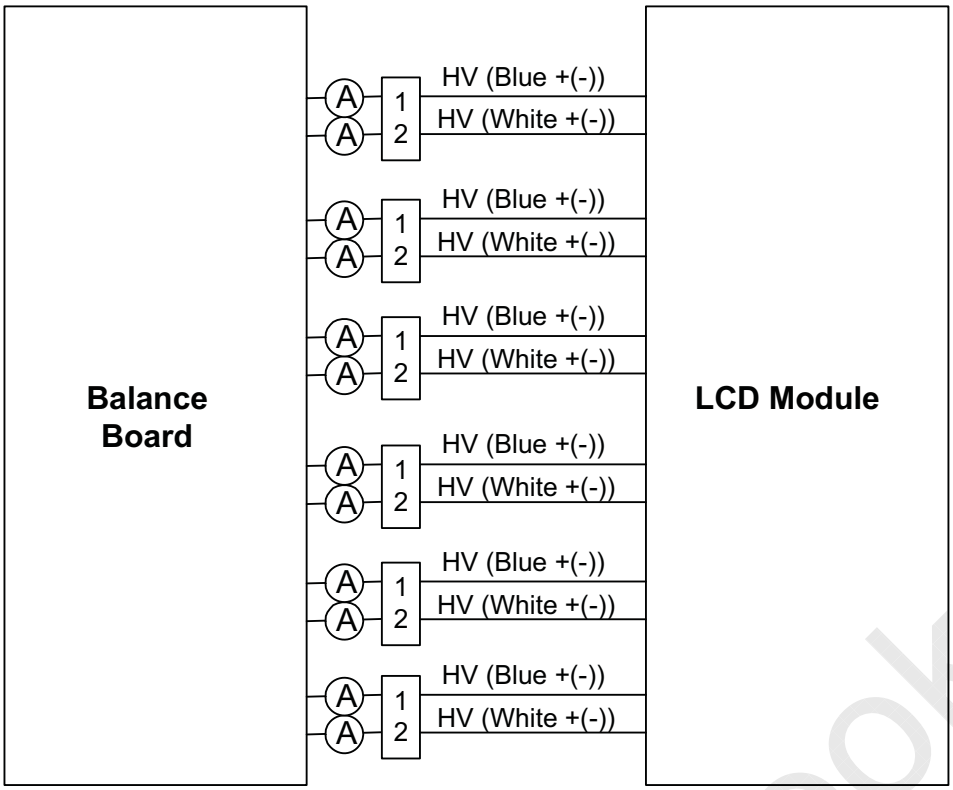

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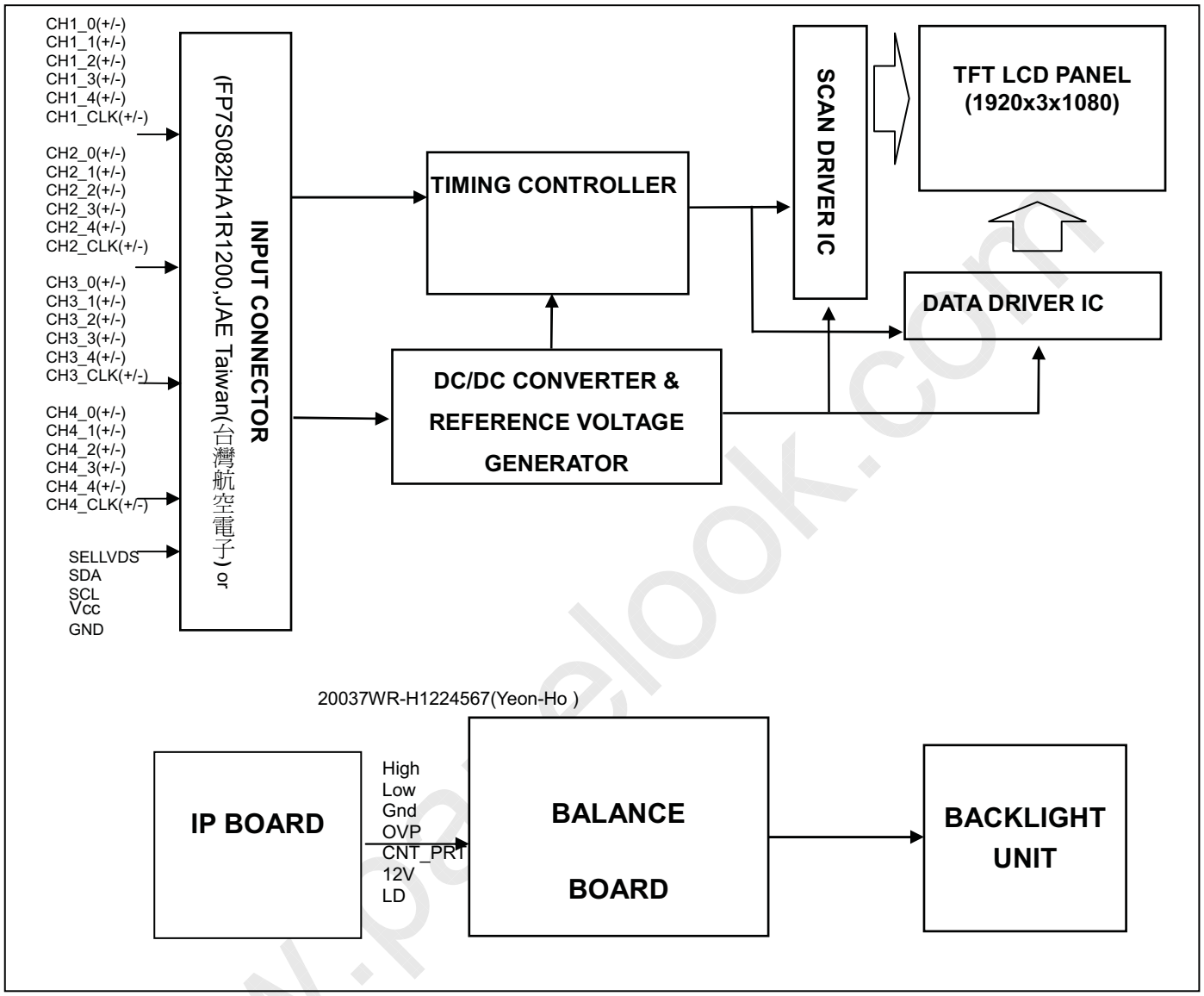
4. BLOCK DIAGRAM OF INTERFACE

4.1 TFT LCD MODULE



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5. INPUT TERMINAL PIN ASSIGNMENT

5.1 TFT LCD Module Input

CNF1 Connector Pin Assignment (FP7S082HA1R1200,JAE Taiwan(台灣航空電子) or equivalent)

Pin	Name	Description	Note
1	VCC	+12V power supply	
2	VCC	+12V power supply	
3	VCC	+12V power supply	
4	VCC	+12V power supply	
5	VCC	+12V power supply	
6	N.C.	No Connection	(1)
7	GND	Ground	
8	GND	Ground	
9	GND	Ground	
10	CH1[0]-	First pixel Negative LVDS differential data input. Pair 0	
11	CH1[0]+	First pixel Positive LVDS differential data input. Pair 0	
12	CH1[1]-	First pixel Negative LVDS differential data input. Pair 1	
13	CH1[1]+	First pixel Positive LVDS differential data input. Pair 1	
14	CH1[2]-	First pixel Negative LVDS differential data input. Pair 2	
15	CH1[2]+	First pixel Positive LVDS differential data input. Pair 2	
16	GND	Ground	
17	CH1CLK-	First pixel Negative LVDS differential clock input.	
18	CH1CLK+	First pixel Positive LVDS differential clock input.	
19	GND	Ground	
20	CH1[3]-	First pixel Negative LVDS differential data input. Pair 3	
21	CH1[3]+	First pixel Positive LVDS differential data input. Pair 3	
22	CH1[4]-	First pixel Negative LVDS differential data input. Pair 4	
23	CH1[4]+	First pixel Positive LVDS differential data input. Pair 4	
24	GND	Ground	
25	CH3[0]-	Third pixel Negative LVDS differential data input. Pair 0	
26	CH3[0]+	Third pixel Positive LVDS differential data input. Pair 0	
27	CH3[1]-	Third pixel Negative LVDS differential data input. Pair 1	
28	CH3[1]+	Third pixel Positive LVDS differential data input. Pair 1	

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29	CH3[2]-	Third pixel Negative LVDS differential data input. Pair 2	
30	CH3[2]+	Third pixel Positive LVDS differential data input. Pair 2	
31	GND	Ground	
32	CH3CLK-	Third pixel Negative LVDS differential clock input.	
33	CH3CLK+	Third pixel Positive LVDS differential clock input.	
34	GND	Ground	
35	CH3[3]-	Third pixel Negative LVDS differential data input. Pair 3	
36	CH3[3]+	Third pixel Positive LVDS differential data input. Pair 3	
37	CH3[4]-	Third pixel Negative LVDS differential data input. Pair 4	
38	CH3[4]+	Third pixel Positive LVDS differential data input. Pair 4	
39	GND	Ground	
40	SCL	I2C Bus	
41	N.C.	No Connection	(1)
42	N.C.	No Connection	(1)
43	WP	Write Protection for EEPROM	
44	SDA	I2C Bus	
45	LVDS_SEL	LVDS Data Format Selection	(2)
46	N.C.	No Connection	(1)
47	N.C.	No Connection	(1)
48	N.C.	No Connection	(1)
49	N.C.	No Connection	(1)
50	N.C.	No Connection	(1)
51	N.C.	No Connection	(1)
52	GND	Ground	
53	CH4[4]+	Fourth pixel Positive LVDS differential data input. Pair 4	
54	CH4[4]-	Fourth pixel Negative LVDS differential data input. Pair 4	
55	CH4[3]+	Fourth pixel Positive LVDS differential data input. Pair 3	
56	CH4[3]-	Fourth pixel Negative LVDS differential data input. Pair 3	
57	GND	Ground	
58	CH4CLK+	Fourth pixel Positive LVDS differential clock input.	
59	CH4CLK-	Fourth pixel Negative LVDS differential clock input.	
60	GND	Ground	

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61	CH4[2]+	Fourth pixel Positive LVDS differential data input. Pair 2	
62	CH4[2]-	Fourth pixel Negative LVDS differential data input. Pair 2	
63	CH4[1]+	Fourth pixel Positive LVDS differential data input. Pair 1	
64	CH4[1]-	Fourth pixel Negative LVDS differential data input. Pair 1	
65	CH4[0]+	Fourth pixel Positive LVDS differential data input. Pair 0	
66	CH4[0]-	Fourth pixel Negative LVDS differential data input. Pair 0	
67	GND	Ground	
68	CH2[4]+	Second pixel Positive LVDS differential data input. Pair 4	
69	CH2[4]-	Second pixel Negative LVDS differential data input. Pair 4	
70	CH2[3]+	Second pixel Positive LVDS differential data input. Pair 3	
71	CH2[3]-	Second pixel Negative LVDS differential data input. Pair 3	
72	GND	Ground	
73	CH2CLK+	Second pixel Positive LVDS differential clock input.	
74	CH2CLK-	Second pixel Negative LVDS differential clock input.	
75	GND	Ground	
76	CH2[2]+	Second pixel Positive LVDS differential data input. Pair 2	
77	CH2[2]-	Second pixel Negative LVDS differential data input. Pair 2	
78	CH2[1]+	Second pixel Positive LVDS differential data input. Pair 1	
79	CH2[1]-	Second pixel Negative LVDS differential data input. Pair 1	
80	CH2[0]+	Second pixel Positive LVDS differential data input. Pair 0	
81	CH2[0]-	Second pixel Negative LVDS differential data input. Pair 0	
82	GND	Ground	

Note (1) Reserved for internal use. Please leave it open.

Note (2) High=connect to +3.3V: VESA Format ； Low= connect to GND or Open: JEIDA Format.

Note (3) Interface optional pin has internal scheme as following diagram. Customer should keep the interface voltage level requirement as below.

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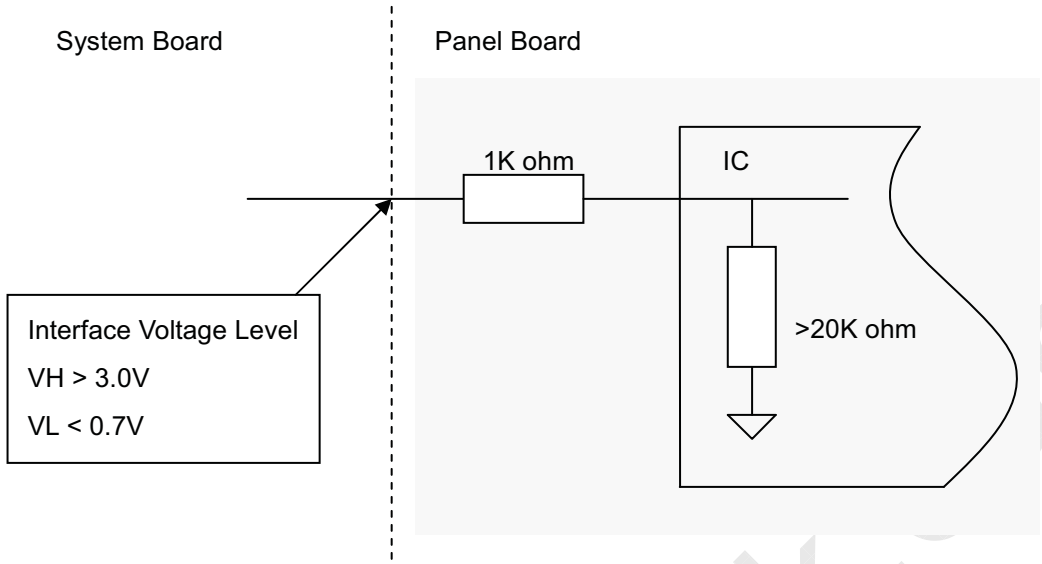


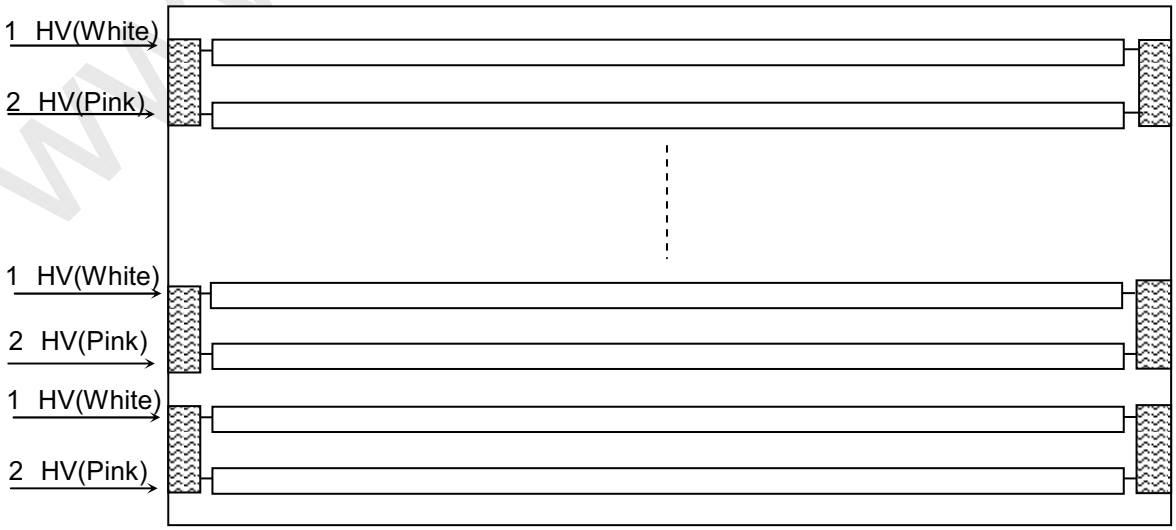
Note (4) LVDS 4-port Data Mapping

Port	Channel of LVDS	Data Stream
1st Port	First Pixel	1, 5, 9, ……1913, 1917
2nd Port	Second Pixel	2, 6, 10, ….1914, 1918
3rd Port	Third Pixel	3, 7, 11, ….1915, 1919
4th Port	Fourth Pixel	4, 8, 12, ….1916, 1920

5.2 BACKLIGHT UNIT

The pin configuration for the housing and the leader wire is shown in the table below.

Pin	Name	Description	Wire Color
1	HV	High Voltage	White
2	HV	High Voltage	Pink



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5.3 BALANCE BOARD UNIT

CN1(Header): 20037WR-H1224567(Yeon-Ho)

Pin №	Signal name	Feature
1	HIGH (FET)	Pulse 390V (Drive, Primary)
2	No pin	NC
3	LOW (FET)	Blocking (195Vdc, Primary)
4	No pin	NC
5	No pin	NC
6	No Pin	NC
7	No Pin	NC
8	GND	Ground (Secondary)
9	OVP	One Lamp Open Protection
10	CNT_PRT	Open Input Connector Protection (Normal 12V, Active Low)
11	12V	VCC
12	LD	All Lamp Open Protection (Normal 12V, Active Low)

Ampower: CN2-CN7: CP042EP1MFB-LF (CviLux)

Hansol: CN11-CN16: 130001WR-02H (YEONHO)

Pin No.	Symbol	Description
1	CCFL HOT	CCFL High voltage
2	CCFL HOT	CCFL High voltage

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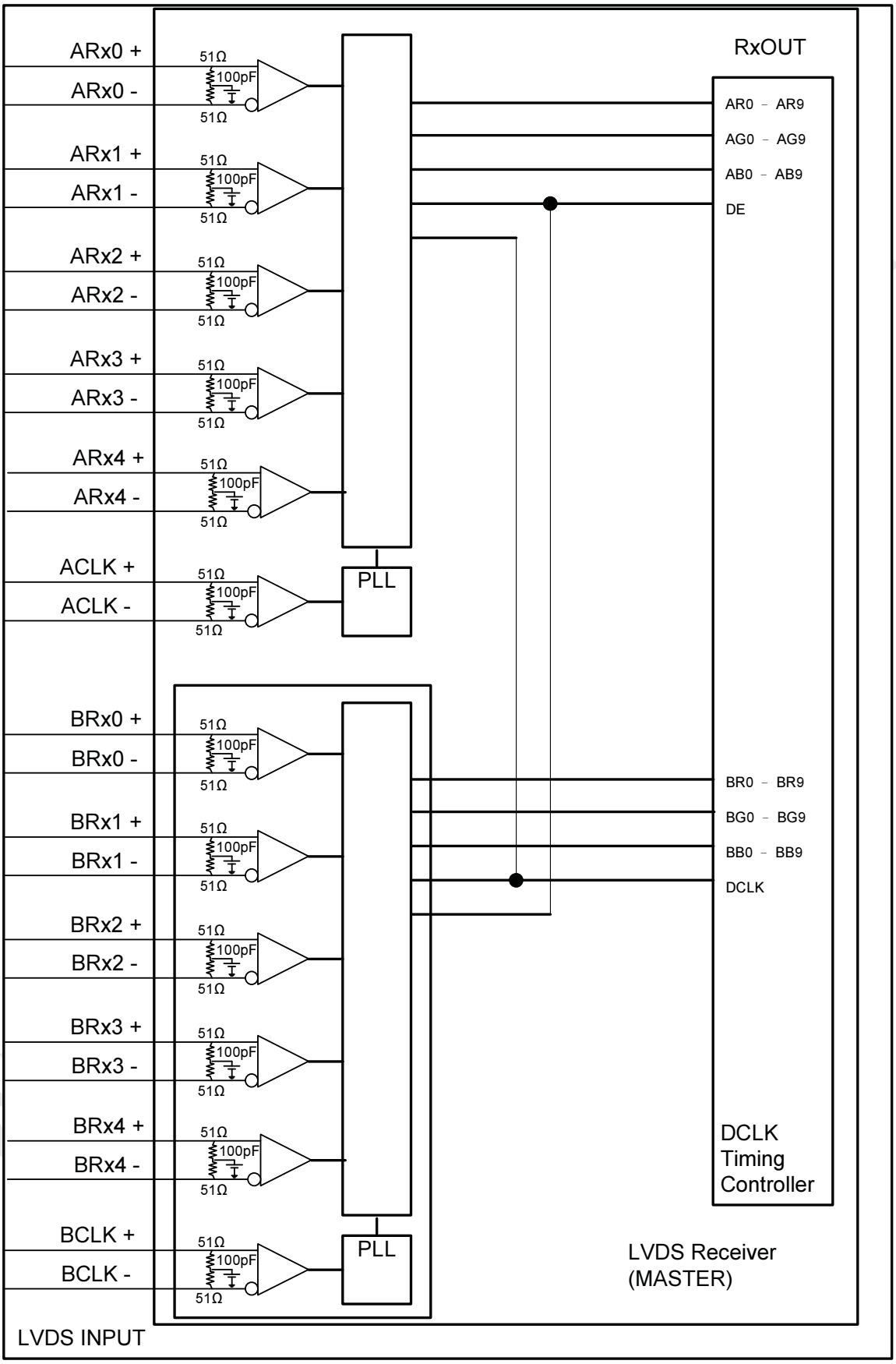
5.4 BLOCK DIAGRAM OF INTERFACE



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AR0~AR9: First pixel R data

AG0~AG9: First pixel G data

AB0~AB9: First pixel B data

BR0~BR9: Second pixel R data

BG0~BG9: Second pixel G data

BB0~BB9: Second pixel B data

DE: Data enable signal

DCLK: Data clock signal

The third and fourth pixel are followed the same rules.

CR0~CR9: Third pixel R data

CG0~CG9: Third pixel G data

CB0~CB9: Third pixel B data

DR0~DR9: Fourth pixel R data

DG0~DG9: Fourth pixel G data

DB0~DB9: Fourth pixel B data

Note (1) A ~ D channel are first, second, third and fourth pixel respectively.

Note (2) The system must have the transmitter to drive the module.

Note (3) LVDS cable impedance shall be 50 ohms per signal line or about 100 ohms per twist-pair line when it is used differentially.

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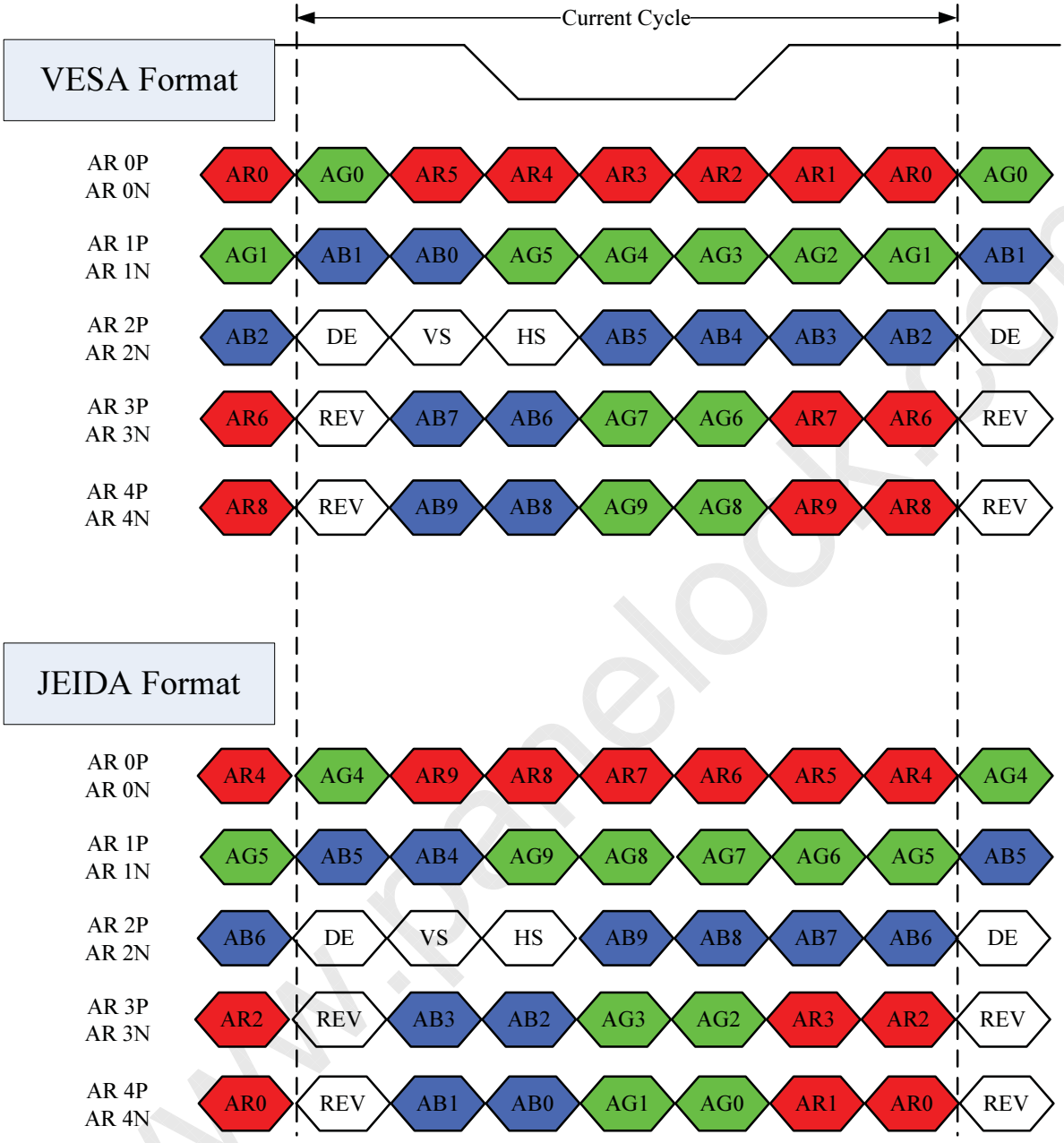
5.5 LVDS INTERFACE

VESA Format : SELLVDS = H

JEIDA Format : SELLVDS = L or Open



AR0~AR9: First Pixel R Data (9; MSB, 0; LSB)

AG0~AG9: First Pixel G Data (9; MSB, 0; LSB)

AB0~AB9: First Pixel B Data (9; MSB, 0; LSB)

DE : Data enable signal

DCLK : Data clock signal

RSV : Reserved

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5.6 COLOR DATA INPUT ASSIGNMENT

The brightness of each primary color (red, green and blue) is based on the 10-bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides the assignment of the color versus data input.

Color		Data Signal																													
		Red										Green										Blue									
		R9	R8	R7	R6	R5	R4	R3	R2	R1	R0	G9	G8	G7	G6	G5	G4	G3	G2	G1	G0	B9	B8	B7	B6	B5	B4	B3	B2	B1	B0
Basic Colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gray Scale Of Red	Red (0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (1)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (2)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	:			:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red (1021)	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (1022)	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (1023)	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray Scale Of Green	Green (0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green (1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Green (2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Green (1021)	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
	Green (1022)	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	Green (1023)	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Gray Scale Of Blue	Blue (0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue (1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Blue (2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Blue (1021)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1
	Blue (1022)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0
	Blue (1023)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1

Note (1) 0: Low Level Voltage, 1: High Level Voltage

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6. INTERFACE TIMING

6.1 INPUT SIGNAL TIMING SPECIFICATIONS

(Ta = 25 ± 2 ºC)

The input signal timing specifications are shown as the following table and timing diagram.

Signal	Item	Symbol	Min.	Typ.	Max.	Unit	Note
LVDS Receiver Clock	Frequency	F_{clkin} (=1/TC)	60	74.25	80	MHz	(1)(5)
	Input cycle to cycle jitter	T_{rcl}	—	—	200	ps	(3)
	Spread spectrum modulation range	F_{clkin_mod}	F_{clkin}-2%	—	F_{clkin}+2%	MHz	(4)
	Spread spectrum modulation frequency	F_{SSM}	—	—	200	KHz	
LVDS Receiver Data	Setup Time	Tlvsu	600	—	—	ps	(5)
	Hold Time	Tlvhd	600	—	—	ps	
Vertical Active Display Term	Frame Rate	F_{r5}	—	100	—	Hz	(1)
		F_{r6}	—	120	—	Hz	
	Total	Tv	1115	1125	1135	Th	Tv=Tvd+Tvb
	Display	Tvd	1080	1080	1080	Th	(2)
	Blank	Tvb	35	45	55	Th	(2)
Horizontal Active Display Term	Total	Th	540	550	575	Tc	Th=Thd+Thb
	Display	Thd	480	480	480	Tc	(2)
	Blank	Thb	60	70	95	Tc	(2)

Note (1) Since the module is operated in DE only mode, Hsync and Vsync input signals should be set to low logic level. Otherwise, this module would operate abnormally.

Note (2) Please make sure the range of pixel clock has follow the below equation:

$F_{clkin(max)} \geqq F_{r6} \times Tv \times Th$

$F_{r5} \times Tv \times Th \geqq F_{clkin(min)}$

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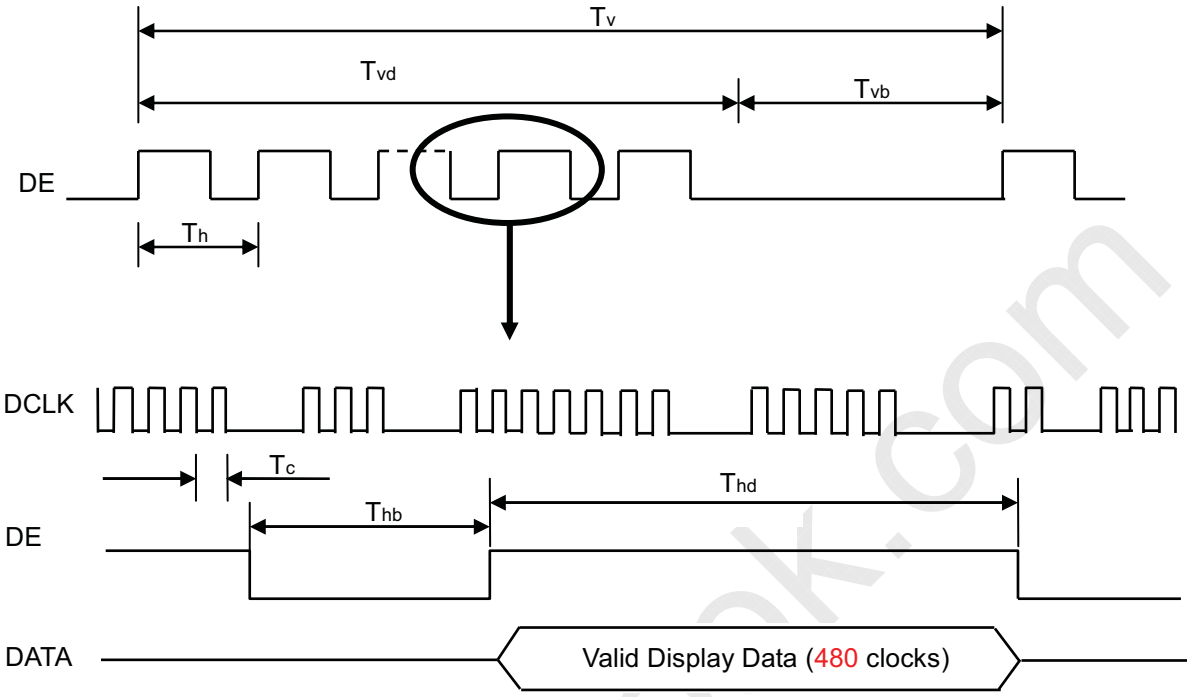
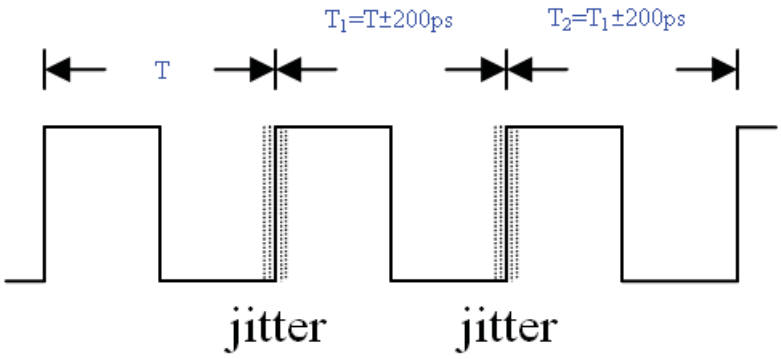
INPUT SIGNAL TIMING DIAGRAM



Note (3) The input clock cycle-to-cycle jitter is defined as below figures. Trcl = I T_1 – TI



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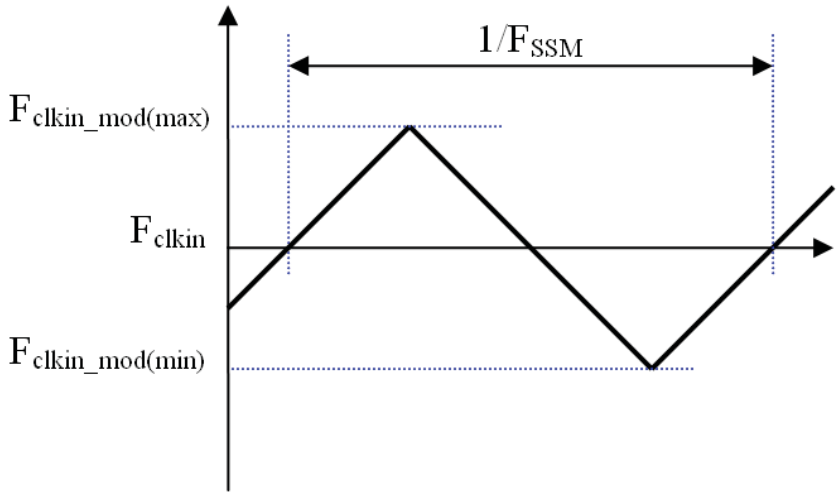
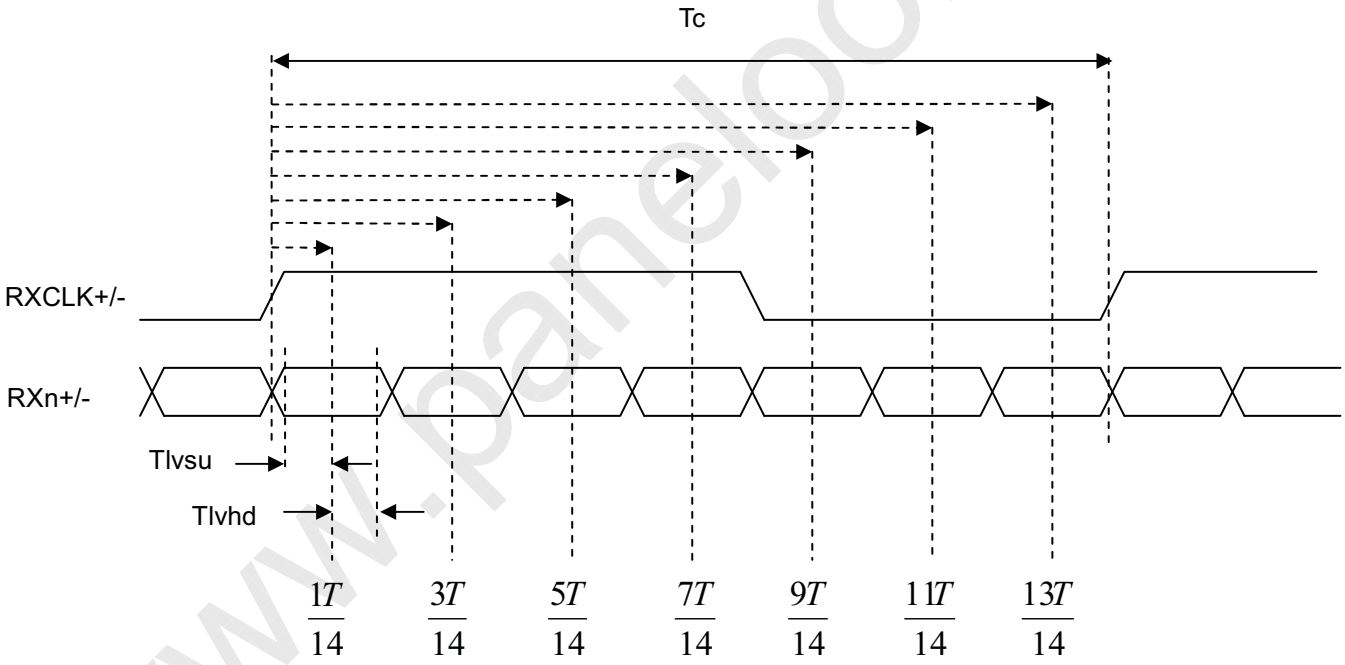
Note (4) The SSCG (Spread spectrum clock generator) is defined as below figures.



Note (5) The LVDS timing diagram and setup/hold time is defined and showing as the following figures.

LVDS RECEIVER INTERFACE TIMING DIAGRAM



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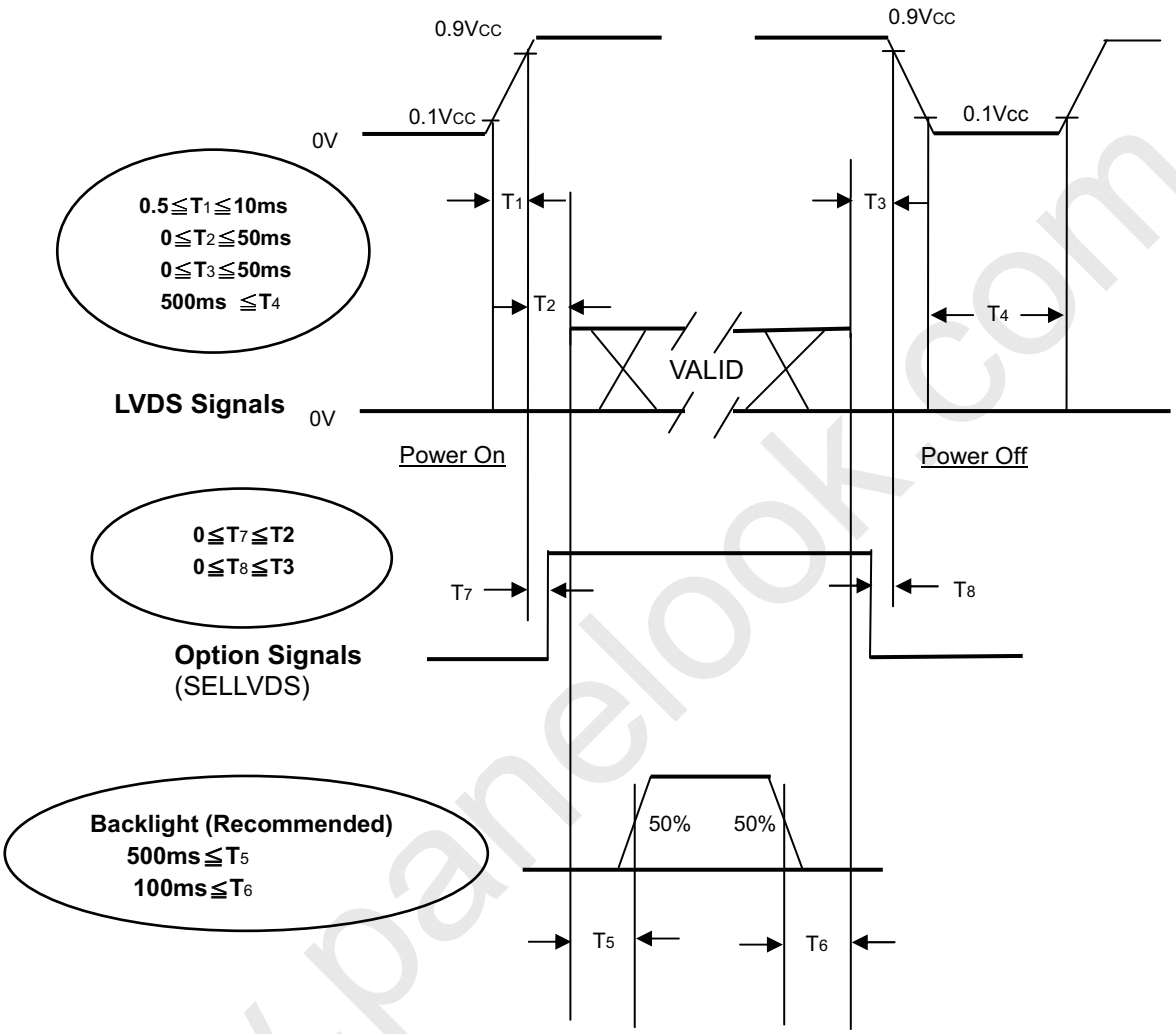
6.2 POWER ON/OFF SEQUENCE

(Ta = 25 ± 2 ºC)

To prevent a latch-up or DC operation of LCD module, the power on/off sequence should be as the diagram below.



Power ON/OFF Sequence

Note (1) The supply voltage of the external system for the module input should follow the definition of Vcc.

Note (2) Apply the LED voltage within the LCD operation range. When the backlight turns on before the LCD operation or the LCD turns off before the backlight turns off, the display may momentarily become abnormal screen.

Note (3) In case of Vcc is in off level, please keep the level of input signals on the low or high impedance. If T2<0,that maybe cause electrical overstress failure.

Note (4) T4 should be measured after the module has been fully discharged between power off and on period.

Note (5) Interface signal shall not be kept at high impedance when the power is on.

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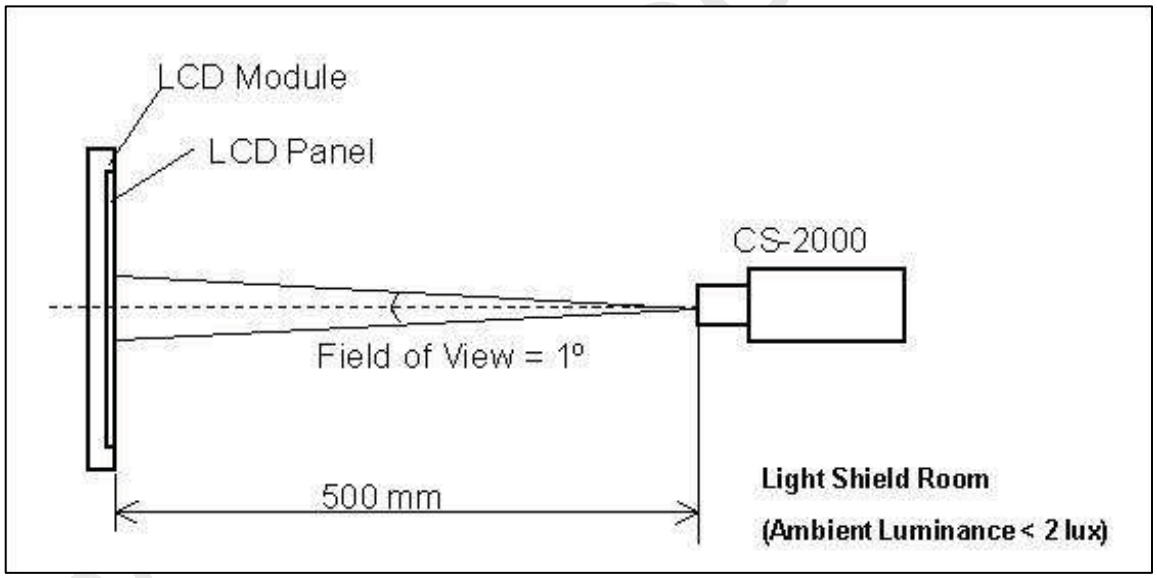
7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	VCC	12	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Lamp Current	IL	14.5	mA
Oscillating Frequency (Balance board)	FW	45±2	kHz
Vertical Frame Rate	Fr	**120**	Hz

The LCD module should be stabilized at given temperature for 1 hour to avoid abrupt temperature change during measuring in a windless room.



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7.2 OPTICAL SPECIFICATIONS

The relative measurement methods of optical characteristics are shown in 7.2. The following items should be measured under the test conditions described in 7.1 and stable environment shown in 7.1.

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast Ratio		CR	θx=0°, θy =0° Viewing angle at normal direction	4000	6000	-	-	(2)
Response Time (VA)		Gray to gray		-	5.5	11	ms	(3)
Center Luminance of White		L_C		360	500	-	cd/m^2	(4)
White Variation		δW		-	-	1.3	-	(6)
Cross Talk		CT		-	-	4	%	(5)
Color Chromaticity	Red	Rx		Typ. -0.03	0.635	Typ. +0.03	-	-
		Ry			0.325		-	
	Green	Gx			0.292		-	
		Gy			0.601		-	
	Blue	Bx			0.148		-	
		By			0.049		-	
	White	Wx			0.280		-	
		Wy			0.290		-	
	Color Gamut	C.G		-	72	-	%	NTSC
Viewing Angle	Horizontal	θx+	CR≥20 (VA) CR≥10 (TN)	80	88	-	Deg.	(1)
		θx-		80	88	-		
	Vertical	θY+		80	88	-		
		θY-		80	88	-		

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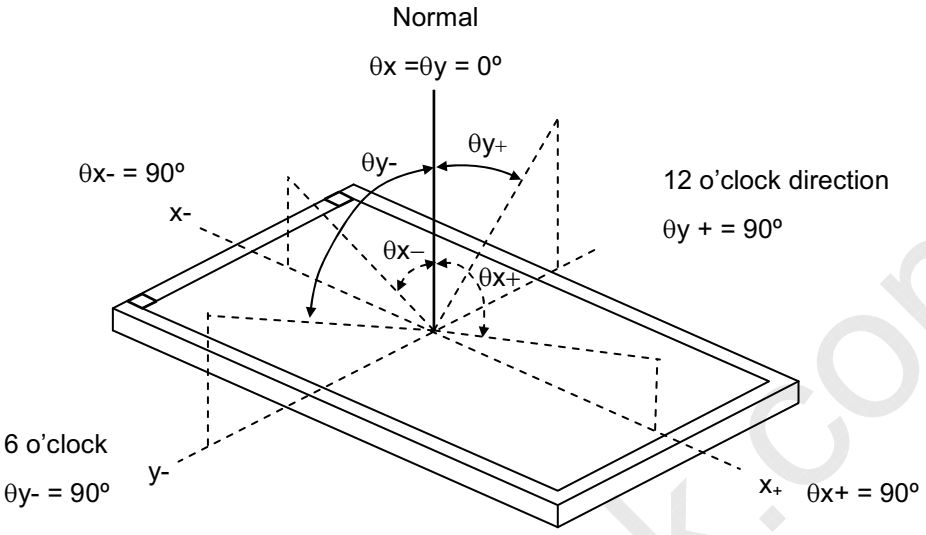
Note (1) Definition of Viewing Angle (θx, θy) :

Viewing angles are measured by Conoscope Cono-80 (or Eldim EZ-Contrast 160R)



Note (2) Definition of Contrast Ratio (CR) :

The contrast ratio can be calculated by the following expression.

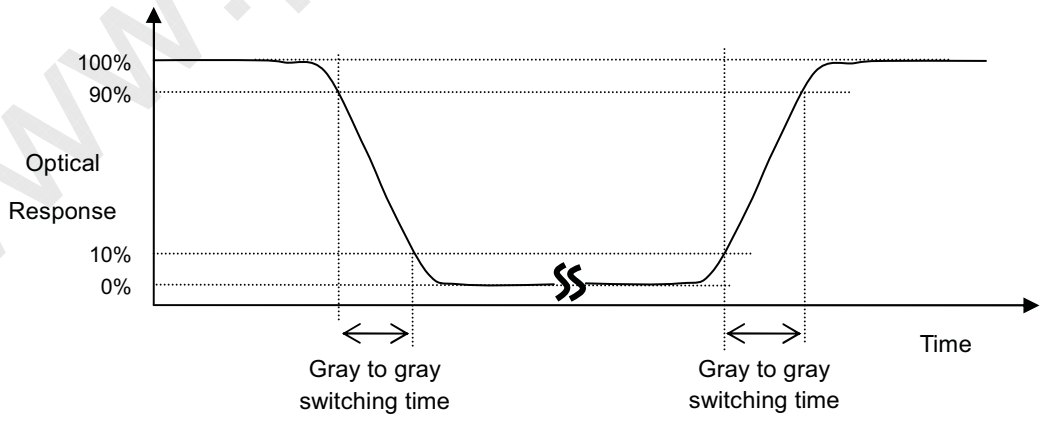
$$\text{Contrast Ratio (CR)} = \frac{\text{Surface Luminance of L255}}{\text{Surface Luminance of L0}}$$

L255: Luminance of gray level 255

L 0: Luminance of gray level 0

CR = CR (5), where CR (X) is corresponding to the Contrast Ratio of the point X at the figure in Note (6).

Note (3) Definition of Gray-to-Gray Switching Time:



The driving signal means the signal of gray level 0, 31, 63, 95, 127, 159, 191, 223 and 255

Gray to gray means the average switching time of gray level 0, 31, 63, 95, 127, 159, 191, 223 and 255 to each other."

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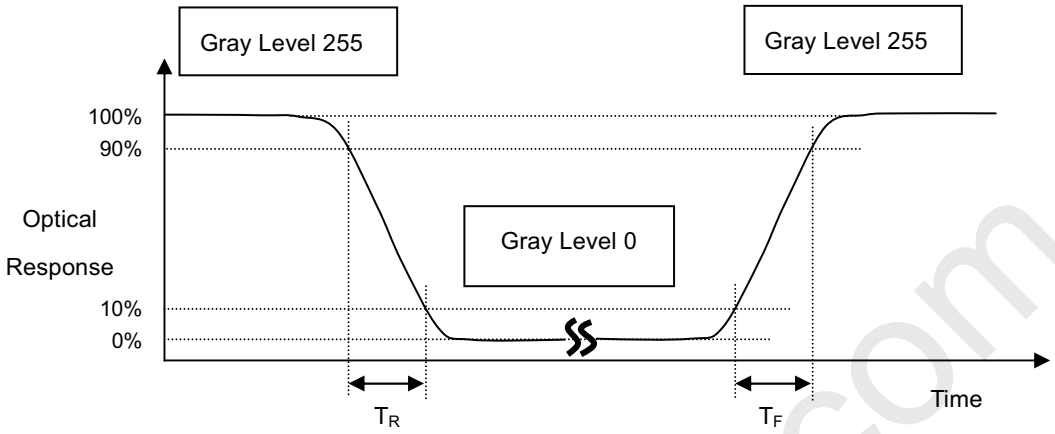
Note (3) Definition of Response Time (T_R, T_F):



Note (4) Definition of Luminance of White (L_C):

Measure the luminance of gray level 255 at center point and 5 points

L_C = L (5), where L (X) is corresponding to the luminance of the point X at the figure in Note (6).

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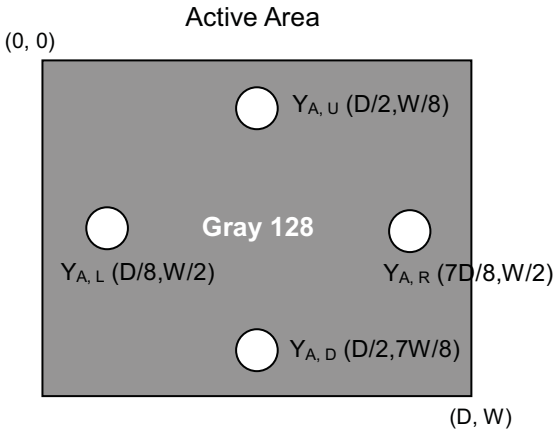
Note (5) Definition of Cross Talk (CT):

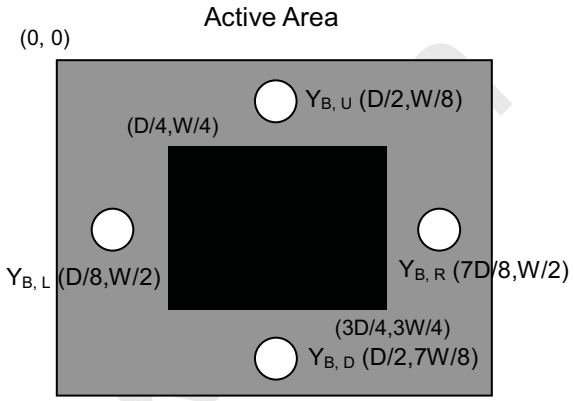
$CT = | Y_B – Y_A | / Y_A \times 100\ (\%)$

Where:

Y_A = Luminance of measured location without gray level 0 pattern (cd/m2)

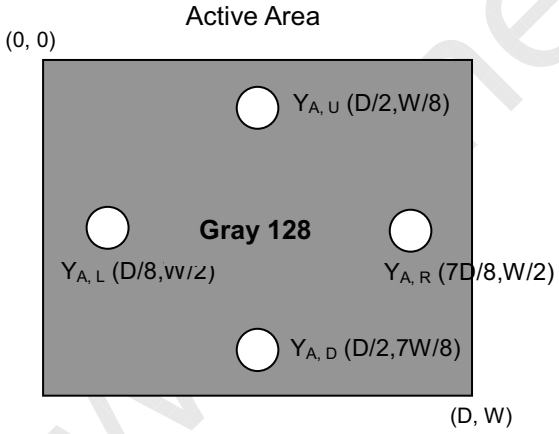
Y_B = Luminance of measured location with gray level 0 pattern (cd/m2)

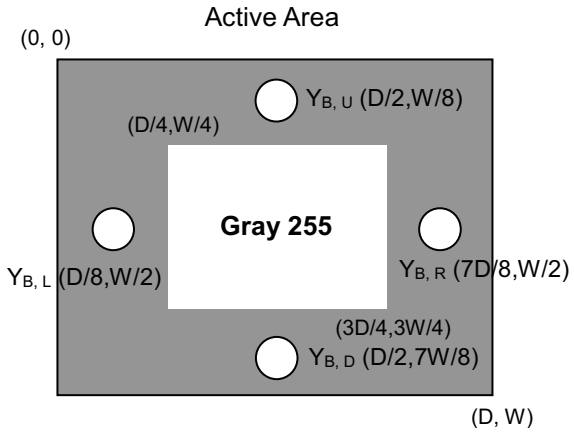




Y_A = Luminance of measured location without gray level 255 pattern (cd/m2)

Y_B = Luminance of measured location with gray level 255 pattern (cd/m2)





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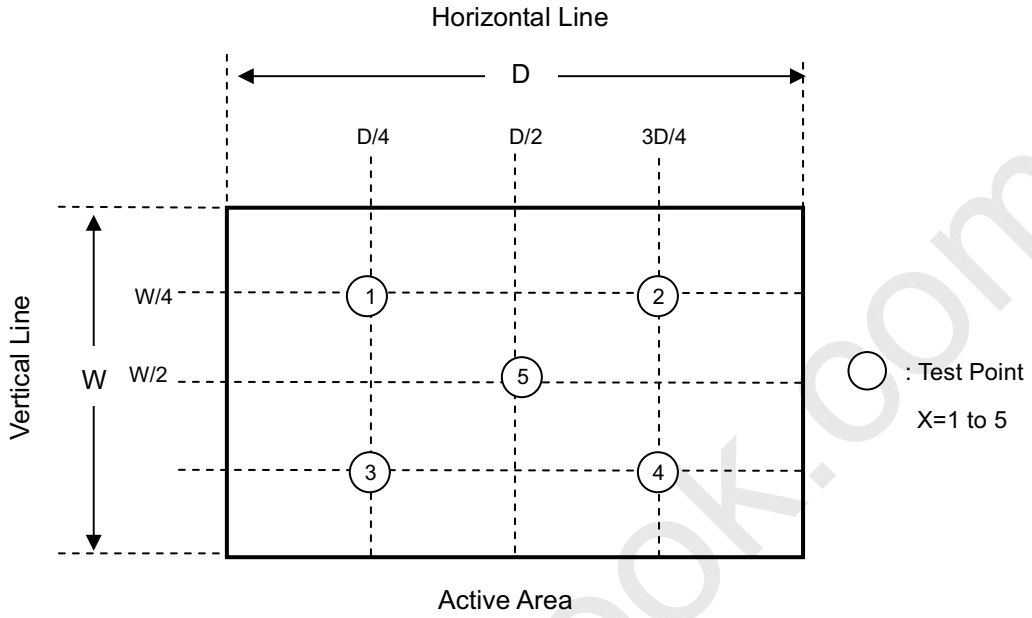
Note (6) Definition of White Variation (δW):

Measure the luminance of gray level 255 at 5 points

δW = Maximum [L (1), L (2), L (3), L (4), L (5)] / Minimum [L (1), L (2), L (3), L (4), L (5)]



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PRECAUTIONS

8.1 ASSEMBLY AND HANDLING PRECAUTIONS

[1] Do not apply rough force such as bending or twisting to the module during assembly.

[2] It is recommended to assemble or to install a module into the user's system in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.

[3] Do not apply pressure or impulse to the module to prevent the damage of LCD panel and Backlight.

[4] Always follow the correct power-on sequence when the LCD module is turned on. This can prevent the damage and latch-up of the CMIS LSI chips.

[5] Bezel of Set can not press or touch the panel surface. It will make light leakage or scrape.

[6] Do not plug in or pull out the I/F connector while the module is in operation.

[7] Do not disassemble the module.

[8] Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.

[9] Moisture can easily penetrate into LCD module and may cause the damage during operation.

[10] When storing modules as spares for a long time, the following precaution is necessary.

[10.1] Do not leave the module in high temperature, and high humidity for a long time. It is highly recommended to store the module with temperature from 0 to 35℃at normal humidity without condensation.

[10.2] The module shall be stored in dark place. Do not store the TFT-LCD module in direct sunlight or fluorescent light.

[11] When ambient temperature is lower than 10ºC, the display quality might be reduced. For example, the response time will become slow, and the starting voltage of CCFL will be higher than that of room temperature.

8.2 SAFETY PRECAUTIONS

[1] The startup voltage of a Backlight is approximately 1000 Volts. It may cause an electrical shock while assembling with the inverter. Do not disassemble the module or insert anything into the Backlight unit.

[2] If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.

[3] After the module's end of life, it is not harmful in case of normal operation and storage.

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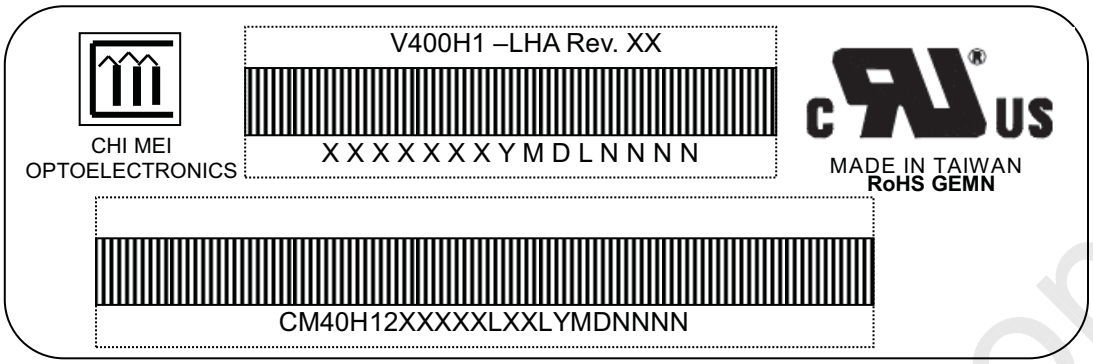
9. DEFINITION OF LABELS

9.1 CMI MODULE LABEL

The barcode nameplate is pasted on each module as illustration, and its definitions are as following explanation.



(a) Model Name: V400H1-LHA

(b) Revision: Rev. XX, for example: A0, A1… B1, B2… or C1, C2…etc.

(c) Production Locations / Factory ID: IN TAIWAN (GEMN) or IN CHINA (LEOO or CAPG or CANO)

(d) CMI barcode definition:

Serial ID: XX-XX-X-XX-YMD-L-NNNN

Code	Meaning	Description
XX	CMI internal use	-
XX	Revision	Cover all the change
X-XX	CMI internal use	-
YMD	Year, month, day	Year: 2001=1, 2002=2, 2003=3, 2004=4… Month: Jan. ~ Dec.=1, 2, 3, ~, 9, A, B, C Day: 1st to 31st =1, 2, 3, ~, 9, A, B, C, ~, W, X, Y, exclude I, O, and U
L	Product line #	Line 1=1, Line 2=2, Line 3=3, …
NNNN	Serial number	Manufacturing sequence of product

(e) Customer's barcode definition:

Serial ID: CM-40HHA-X-X-X-XX-L-XX-L-YMD-NNNN

Code	Meaning	Description
CM	Supplier code	CMI=CM
40HHA	Model number	V400H1-LHA=40HHA
X	Revision code	C1=1, C2=2, ……C9=9
X	Source driver IC code	Century=1, CLL=2, Demos=3, Epson=4, Fujitsu=5, Himax=6, Hitachi=7, Hynix=8, LDI=9, Matsushita=A, NEC=B, Novatec=C, OKI=D, Philips=E, Renasas=F, Samsung=G, Sanyo=H, Sharp=I, TI=J, Topro=K, Toshiba=L, Windbond=M
X	Gate driver IC code	
XX	Cell location	Tainan, Taiwan=TN
L	Cell line #	1~12=0~C
XX	Module location	Tainan, Taiwan=TN
L	Module line #	1~12=0~C
YMD	Year, month, day	Year: 2001=1, 2002=2, 2003=3, 2004=4… Month: Jan. ~ Dec.=1, 2, 3, ~, 9, A, B, C Day: 1st to 31st =1, 2, 3, ~, 9, A, B, C, ~, W, X, Y, exclude I, O, and U
NNNN	Serial number	By LCD supplier

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10. PACKAGING

10.1 PACKAGING SPECIFICATIONS

(1) 5 LCD TV modules / 1 Box

(2) Box dimensions : 1060(L)x378(W)x650(H)mm

(3) Weight : Approx. 44Kg(5 modules per carton)

(4) 5 LCD TV modules / 1 Box

(5) Box dimensions : 1060(L)x378(W)x650(H)mm

(6) Weight :

a. Panel module each pcs: 7.8 kg

b. Panel Packing Box

- Cushion: 1.55 kg (5pcs per box)
- Carton: 2.73 kg
- Panel: 7.8 kg x 5pcs = 39 kg

-Panel Packing Box Total (1 Box) =43.28 kg

c. Total Packing weight

1) For Vessel shipment Pallet (1 Pallet =3 Box or 6 Box)

- Pallet weight: 13.48 kg
- Pallet Cushion: 4.65 kg or 9.3 kg
- Pallet Packing Total = 143.32 kg or 273.16 kg

2) For Air shipment Pallet (1 Pallet =6 Box)

- Pallet weight: 13.48 kg
- Pallet Cushion: 9.3 kg
- Pallet Packing Total =273.16 kg

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10.2 PACKAGING METHOD

Figures 10-1 and 10-2 are the packing method

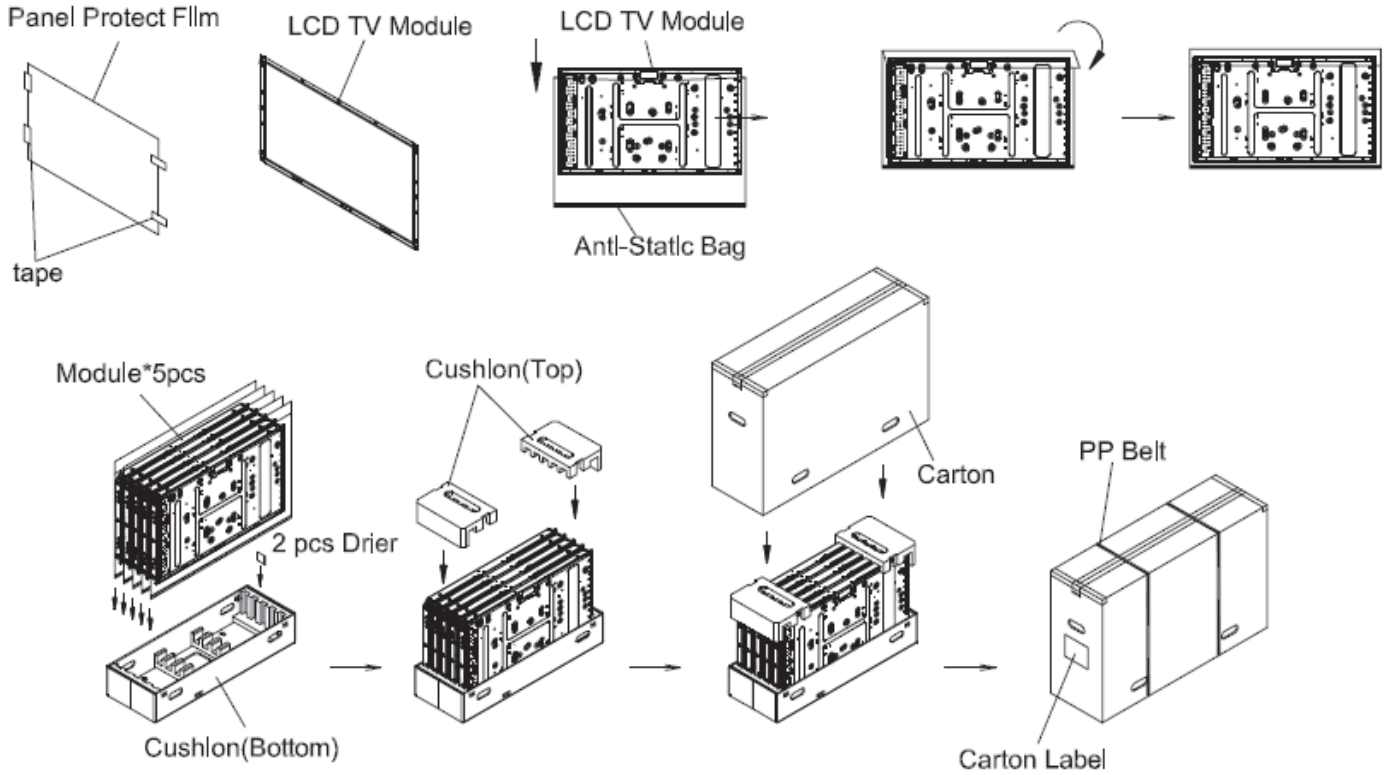

Figure 10-1 packing method

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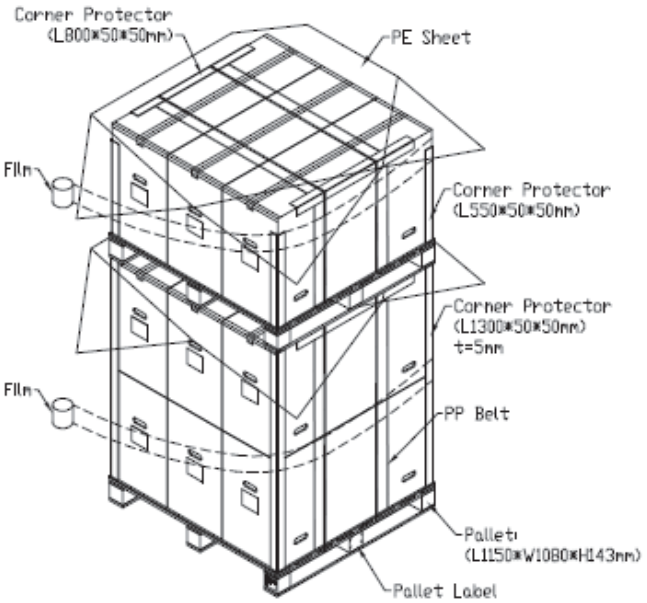
Sea / Land Transportation
(40ft Container)



Air Transportation

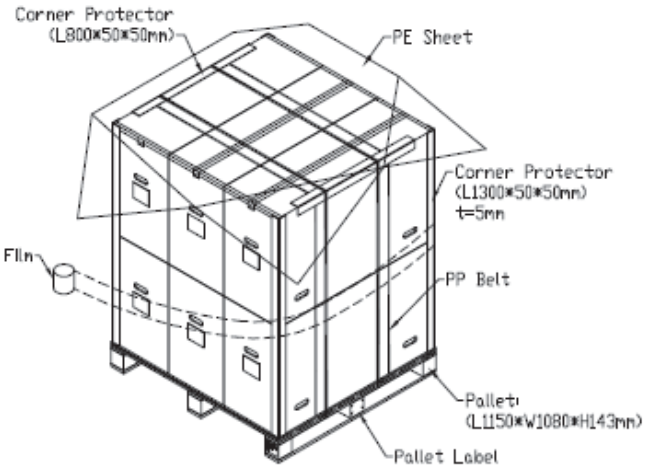


Figure 10-2 packing method

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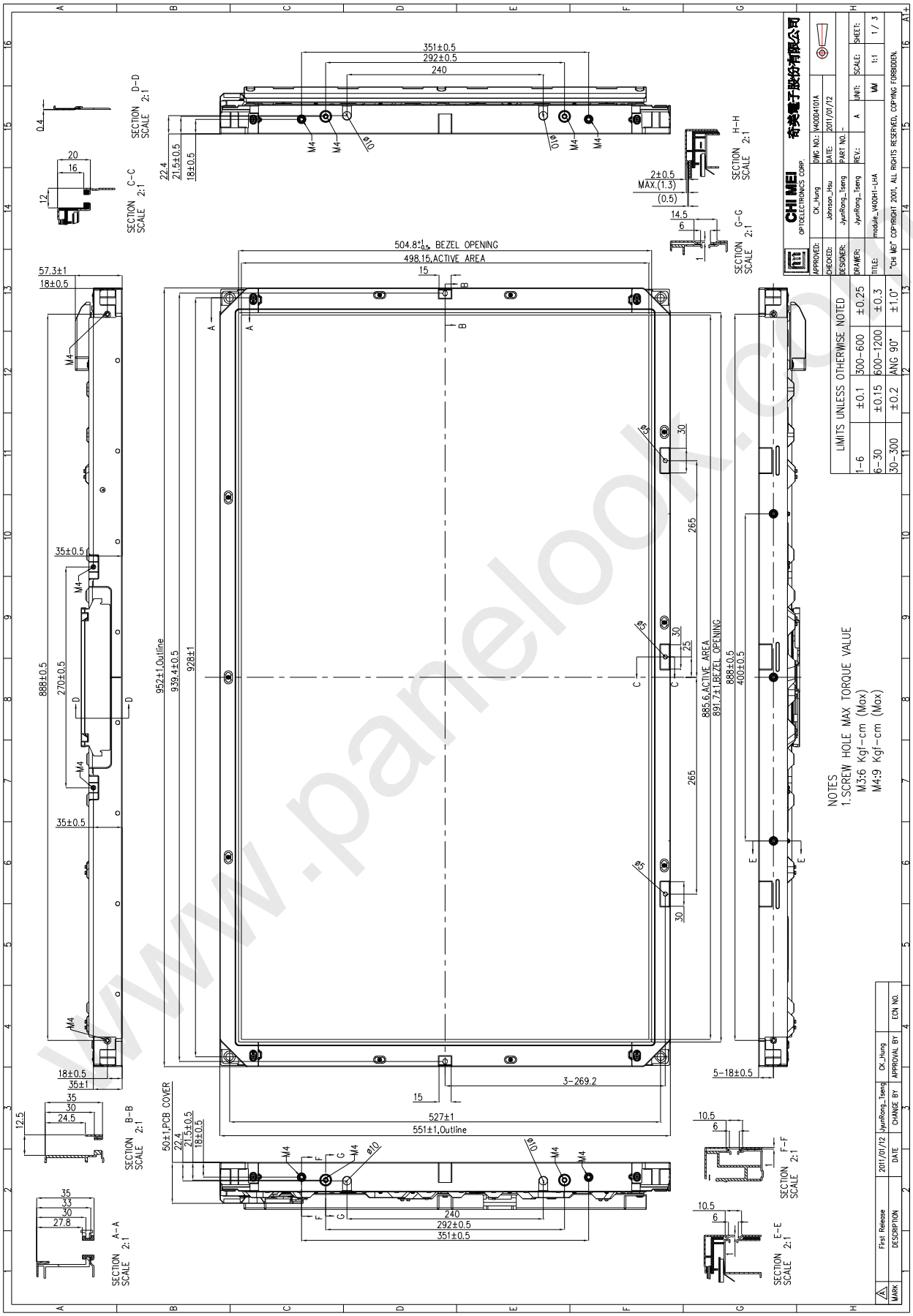
11. MECHANICAL CHARACTERISTIC



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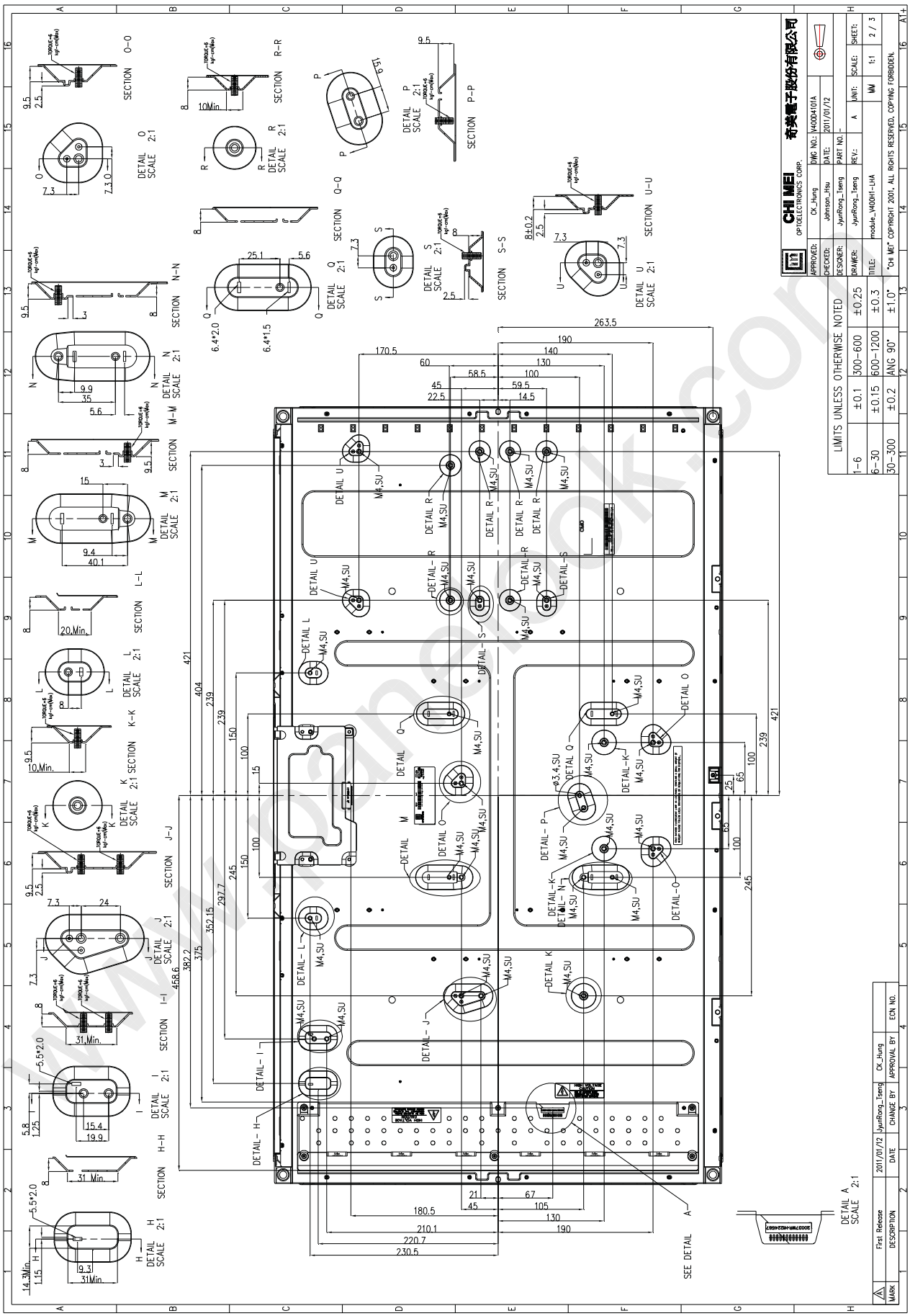

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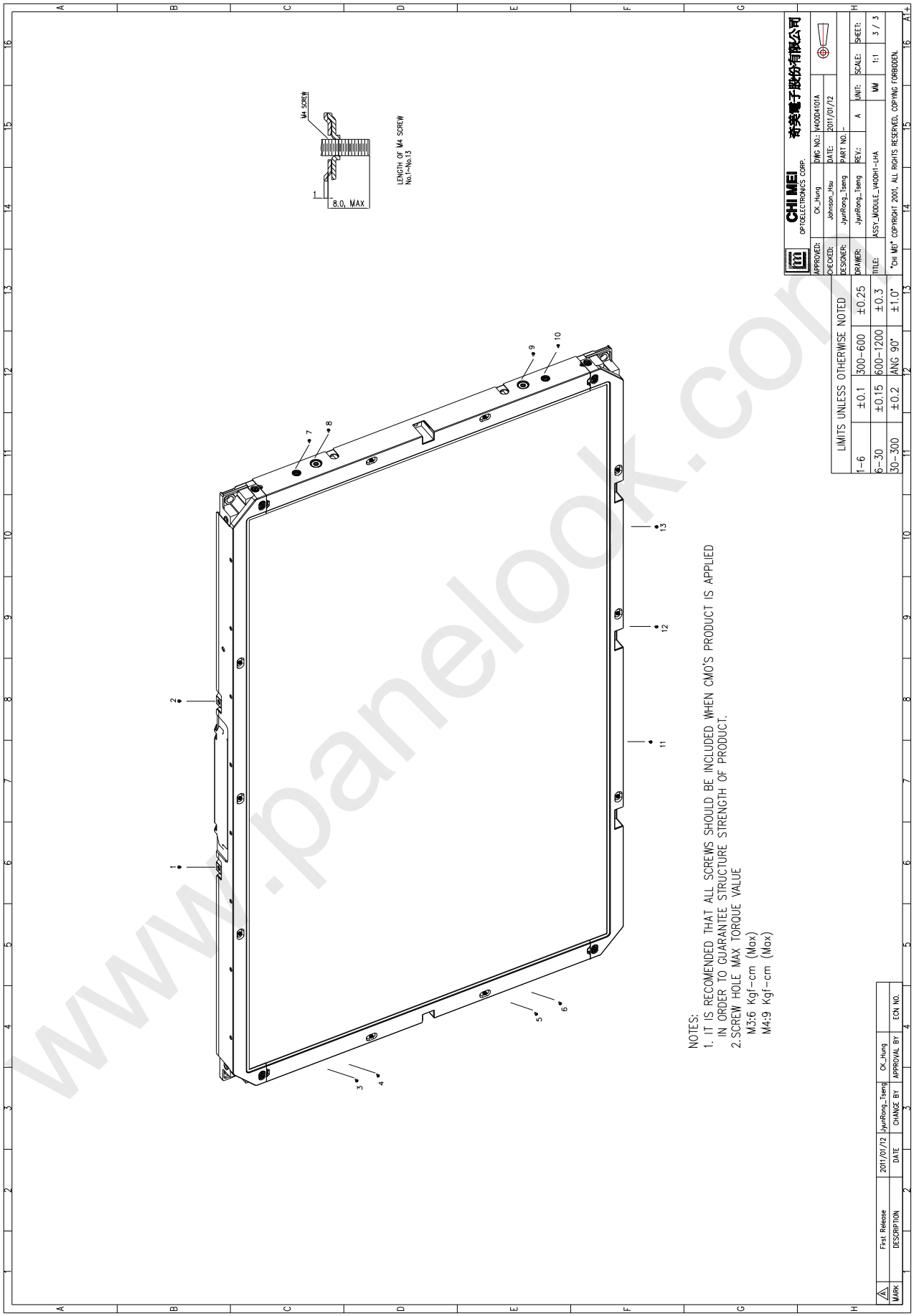

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Appendix – TWO Wire BUS INTRODUCTION

A.1 PIN ASSIGNMENT

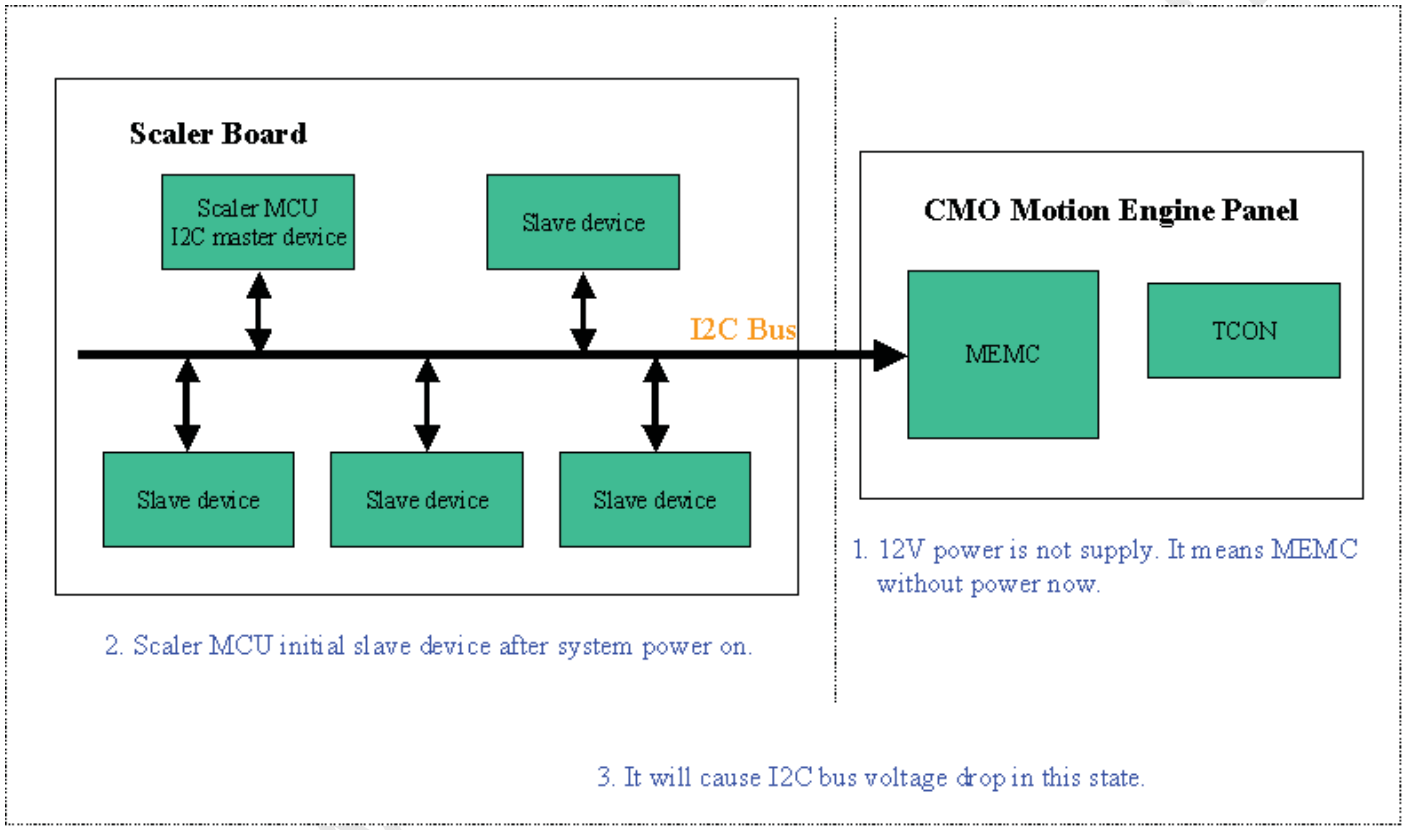
51pins LVDS connector

Pin8: SCL

Pin9: SDA

A.2 I2C BUS APPLICATION NOTE

I2C bus: (The I2C bus must for MEMC only or prevent the I2C bus voltage drop down in initial state)



A.3 TWO WIRE BUS DEVICE ADDRESS

Two wire device address: default is 0x40, 1 byte

Two wire command: the range is 0x00 to 0xFF, 1 byte, see the two wire command table.

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